SEQUENCE LISTING

5   (1) GENERAL INFORMATION:

           (i) APPLICANT:
               (A) NAME: Zeneca MOGEN
               (B) STREET: Einsteinweg 97
10   (C) CITY: Leiden
               (E) COUNTRY: The Netherlands
               (F) POSTAL CODE (ZIP): 2333 CB
               (G) TELEPHONE: (31) 71-5258282
               (H) TELEFAX: (31) 71-5221471
15
          (ii) TITLE OF INVENTION: New constitutive plant promoters

          (iii) NUMBER OF SEQUENCES: 22

20   (iv) COMPUTER READABLE FORM:
               (A) MEDIUM TYPE: Floppy disk
               (B) COMPUTER: IBM PC compatible
               (C) OPERATING SYSTEM: PC-DOS/MS-DOS
               (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
25
          (vi) PRIOR APPLICATION DATA:
               (A) APPLICATION NUMBER: EP 97203912.7
               (B) FILING DATE: 12-DEC-1997

30
      (2) INFORMATION FOR SEQ ID NO: 1:

           (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 520 base pairs
35   (B) TYPE: nucleic acid
               (C) STRANDEDNESS: double
               (D) TOPOLOGY: linear

          (ii) MOLECULE TYPE: DNA (genomic)
40
          (iii) HYPOTHETICAL: NO

          (iii) ANTI-SENSE: NO

45
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

      GACTGAAGTG TGAAGGTGGA GATTATGTAT TCACTTGTTC ATTTGGTATA CATTCTATGT   60

50   AAGGTTCAAT TATTTACGTT ATATAATTAT AATGGAGTAA TTTACAGTAA TTGGGTTAAA   120

      ATGGTTTGAT TCGGTCAGGT TGATACGGTT TGGAAGTTAA ACCCGGCCTA GATATGATGT   180

      TACAACCAGT CCACATCTTT TATGATTTTA GTGGAACAAA CGAAGAGTTA TTTAGACGAT   240
55
      ACAAACAAGG TCCGAATAAG TGTGAGCTGT CCCAAGTAAG ACCAGTAAT ACTCACCTCA   300

      ACAAGATAGT GTTCTTAAAG TGTGTCAAAC ACAATCACAC ACACACAAT CATAAAACAC   360

60   AAAGACGATA ATCCATCGAT CCACAGAATA GACGCCACGT GGTAGATAGG ATTCTCACTA   420

      AAAGTTCTC ACCTTTTAAT CTTTCTCCAC GCCATTTCCA CAAGCCATAA TCCTCAAAAA   480

      TCTCAACTTT ATCTCCCAAA ACACAAATCT AGAAACCATG   520

(2) INFORMATION FOR SEQ ID NO: 2:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 300 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: double
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: DNA (genomic)

    (iii) HYPOTHETICAL: NO

    (iii) ANTI-SENSE: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

```
CCCACTACAA TGAATTTGTT CGTGAACTAT TAGTTGCGGG CCTTGGCATC CGACTACCTC        60

TGCGGCAATA TTATATTCCC TGGCCCACC GTGAACCCAA TTTCGCCTAT TTATTCATTA        120

CCCCCATTAA CATTGAAGTA GTCATGATGG GCCTGCAGCA CGTTGGTGAG GCTGGCACAA        180

CTCATCCATA TACTTTCTGA CCGGATCGGC ACATTATTGT AGAAAACGCG GACCCACAGC        240

GCACTTTCCA AAGCGGTGCC GCGTCAGAAT GCGCTGGCAG AAAAAAATTA ATCCAAAAGT        300
```

(2) INFORMATION FOR SEQ ID NO: 3:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 840 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: double
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: DNA (genomic)

    (iii) HYPOTHETICAL: NO

    (iii) ANTI-SENSE: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

```
GGATCCGAGC TTGCATGCCC CCACTACAAT GAATTTGTTC GTGAACTATT AGTTGCGGGC        60

CTTGGCATCC GACTACCTCT GCGGCAATAT TATATTCCCT GGGCCCACCG TGAACCCAAT        120

TTCGCCTATT TATTCATTAC CCCCATTAAC ATTGAAGTAG TCATGATGGG CCTGCAGCAC        180

GTTGGTGAGG CTGGCACAAC TCATCCATAT ACTTTCTGAC CGGATCGGCA CATTATTGTA        240

GAAAACGCGG ACCCACAGCG CACTTTCCAA AGCGGTGCCG CGTCAGAATG CGCTGGCAGA        300

AAAAAATTAA TCCAAAAGTG ACTGAAGTGT GAAGGTGGAG ATTATGTATT CACTTGTTGA        360

TTTGGTATAC ATTCTATGTA AGGTTCAATT ATTTACGTTA TATAATTATA ATGGAGTAAT        420

TTACAGTAAT TGGGTTAAAA TGGTTTGATT CGGTCAGGTT GATACGGTTT GGAAGTTAAA        480

CCCGGCCTAG ATATGATGTT ACAACCAGTC CACATCTTTT ATGATTTTAG TGGAACAAAC        540
```

GAAGAGTTAT TTAGACGATA CAAACAAGGT CCGAATAAGT GTGAGCTGTC CCAAGTAAGA   600

CCACGTAATA CTCACCTCAA CAAGATAGTG TTCTTAAAGT GTGTCAAACA CAATCACACA   660

CACACAAATC ATAAAACACA AAGACGATAA TCCATCGATC CACAGAATAG ACGCCACGTG   720

GTAGATAGGA TTCTCACTAA AAAGTTCTCA CCTTTTAATC TTTCTCCACG CCATTTCCAC   780

AAGCCATAAT CCTCAAAAAT CTCAACTTTA TCTCCCAAAA CACAAATCTA GAAACCATGG   840

(2) INFORMATION FOR SEQ ID NO: 4:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 477 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: double
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: DNA (genomic)

        (iii) HYPOTHETICAL: NO

        (iii) ANTI-SENSE: NO

        (vi) ORIGINAL SOURCE:
            (A) ORGANISM: Arabidopsis thaliana

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GGATCCTGCA GCGATTTCAT TTTAGATTCT CAAAAATATT CTCAGATGTG TGGGATTTGA   60

GTAGAGTTTA TGTTGCGTTG GCATGATTTG AATAGTATGC AAGATTTTTG AGATTTTGCA   120

TTCGTTCATG TGTGTATGTG TGATTGTAGC TTGATATGAT TTAACCTGTT AGTTAAATGT   180

GCATAGACAA TAAGTAACAT ACGAAGCGAG TCACTAAGCA TAAGAGTCAA CTTGTTTTGC   240

TGAAAAGATA TCACTTATGA TTTTCGAATC ATTTTAGCTT TTTTGTCACT TGAGCTTAAT   300

GATTCTTCTG AAATTCGATT CTTTGTTTGG TTTATGTCAC ATTCTTTAGA ATTGAGAATC   360

TAAGAAATGC TTACAGGATA TGGTGAAACT ATTCTTTTAA GATAGCATGA TGCTTCTTTT   420

ATGATTCTAC AGTGGCTAAG TCATTTTTTT TTTGTTCTAT TCTTTGTAGC ACCATGG   477

(2) INFORMATION FOR SEQ ID NO: 5:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 29 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: cDNA

        (iii) HYPOTHETICAL: NO

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

AGATTTGTAT TGCAGCGATT TCATTTTAG   29

(2) INFORMATION FOR SEQ ID NO: 6:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 20 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: cDNA

    (iii) HYPOTHETICAL: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

ATCTGGTCAC AGAGCTTGTC   20

(2) INFORMATION FOR SEQ ID NO: 7:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 25 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: cDNA

    (iii) HYPOTHETICAL: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GTCTCCATGG TGCTACAAAG AATAG   25

(2) INFORMATION FOR SEQ ID NO: 8:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 27 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: cDNA

    (iii) HYPOTHETICAL: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

CGGGATCCTG CAGCGATTTC ATTTTAG   27

(2) INFORMATION FOR SEQ ID NO: 9:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 22 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: cDNA

    (iii) HYPOTHETICAL: NO

```
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

  5
    ACATGAACGA ATGCAAAATC TC                                    22

        (2) INFORMATION FOR SEQ ID NO: 10:

 10         (i) SEQUENCE CHARACTERISTICS:
                (A) LENGTH: 22 base pairs
                (B) TYPE: nucleic acid
                (C) STRANDEDNESS: single
                (D) TOPOLOGY: linear

 15
            (ii) MOLECULE TYPE: cDNA

           (iii) HYPOTHETICAL: NO

 20

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

    AGATTTGCA TTCGTTCATG TG                                     22
 25
        (2) INFORMATION FOR SEQ ID NO: 11:

            (i) SEQUENCE CHARACTERISTICS:
                (A) LENGTH: 22 base pairs
 30             (B) TYPE: nucleic acid
                (C) STRANDEDNESS: single
                (D) TOPOLOGY: linear

           (ii) MOLECULE TYPE: cDNA
 35
           (iii) HYPOTHETICAL: NO



 40     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

    TGTAAGCATT TCTTAGATTC TC                                    22

        (2) INFORMATION FOR SEQ ID NO: 12:
 45
            (i) SEQUENCE CHARACTERISTICS:
                (A) LENGTH: 22 base pairs
                (B) TYPE: nucleic acid
                (C) STRANDEDNESS: single
 50             (D) TOPOLOGY: linear

           (ii) MOLECULE TYPE: cDNA

           (iii) HYPOTHETICAL: NO
 55


        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

 60 AAGAAATGCT TACAGGATAT GG                                    22

        (2) INFORMATION FOR SEQ ID NO: 13:

            (i) SEQUENCE CHARACTERISTICS:
 65             (A) LENGTH: 34 base pairs
```

            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

5   (ii) MOLECULE TYPE: cDNA

      (iii) HYPOTHETICAL: NO

10

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GACAAGCTTG ATCCCATGGT GCTACAAAGA ATAG   34

15   (2) INFORMATION FOR SEQ ID NO: 14:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 31 base pairs
            (B) TYPE: nucleic acid
20   (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

       (ii) MOLECULE TYPE: cDNA

25   (iii) HYPOTHETICAL: NO

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
30
AGTGGTACCA TCATAATACT CATCCTCCTT C   31

      (2) INFORMATION FOR SEQ ID NO: 15:

35   (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 37 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear
40
       (ii) MOLECULE TYPE: cDNA

      (iii) HYPOTHETICAL: NO

45

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

CGAAGCTTTA CAAATCTAAT TTCATCACTA AATCGGA   37
50
      (2) INFORMATION FOR SEQ ID NO: 16:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 35 base pairs
55   (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

       (ii) MOLECULE TYPE: cDNA
60
      (iii) HYPOTHETICAL: NO

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

65   GCTGCAATAC AAATCTAATT TCATCACTAA ATCGG   35

(2) INFORMATION FOR SEQ ID NO: 17:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 876 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: double
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: DNA (genomic)

    (iii) HYPOTHETICAL: NO

    (iii) ANTI-SENSE: NO

    (vi) ORIGINAL SOURCE:
        (A) ORGANISM: Arabidopsis thaliana

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

```
ATCATAATAC TCATCCTCCT TCTCAAGGTT CGTACGTATT ATCAATATCT AGTATATACT      60

TGTCTTTGTT CTATGCTTTA TATCATCATT TTATGACAAA AAATGATTAA GGTCTTAGTT     120

AATGATTATG TATATGTGAA ACTTATATTT AGGGGCACAA TTTAATTTCG TATGATAATT     180

GTCTAGTTAG CTTTATGTAC TTATCATAAA AACCTTAGTG TTTATCGCAA TACTTTTCAA     240

ATATAGTGTA GAATCATAAT GGTCCCACTG TCATTATGTT TGATGCAAAT CTATTTGGAT     300

TTTGTTGGAT AATAAACCGA TGACGTGGAC CAGACCAGTA GCTATAAGAT TTGGTTCACA     360

TAGAAATTTT TTATAAGATA ATGTATCTAG GTTTGCTTAT GATTATACAT GTGATATTTA     420

ATACATGGCA CAGGTTCGTC GAGTTTCACA GCCATAGGTA CAATAGAAGG CAAATTCGAT     480

TGTGGTTATC TGGTAAAAGT TAACTTGGGC TCAGAGATTC TTAACGGCGT TCTTTATCAT     540

TCGGCCCAGC CCGGCCCATC ATCATCTCCA ACCGCTGTTC TAAACAATGC CGTTGTACCT     600

TATGTTGAAA CTGGGAGGAG ACGGCGTCGT TTAGGTAAAA GACGAAGAAG CAGACGCAGA     660

GAAGATCCGA ATTACCCGAA ACCGAACTGG AGCGGTTACA ATTTCTTCTT TGCTGAGAAA     720

CATTGCAAGC TCAAATCACT TTATCCCAAC AAGGAGAGAG AGTTTACGAA ACTTATCGGA     780

GAATCGTGGA GCAATCTCTC TACCGAAGAA CGAATGGTAA CAAATTATCT TTTAAACCGT     840

TACCGATTTA GTGATGAAAT TAGATTTGTA GTAAAT                                876
```

(2) INFORMATION FOR SEQ ID NO: 18:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 1357 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: double
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: DNA (genomic)

    (iii) HYPOTHETICAL: NO

    (iii) ANTI-SENSE: NO

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

```
GGATCCCCGG GTACCATCAT AATACTCATC CTCCTTCTCA AGGTTCGTAC GTATTATCAA        60

TATCTAGTAT ATACTTGTCT TTGTTCTATG CTTTATATCA TCATTTTATG ACAAAAAATG       120

ATTAAGGTCT TAGTTAATGA TTATGTATAT GTGAAACTTA TATTTAGGGG CACAGTTTAA       180

TTTCGTATGA TAATTGTCTA GTTAGCTTTA TGTACTTATC ATAAAAACCT TAGTGTTTAT       240

CGCAATACTT TTCAAATATA GTGTAGAATC ATAATGGTCC CACTGTCATT ATGTTTGATG       300

CAAATCTATT TGGATTTTGT TGGATAATAA ACCGATGACG TGGACCAGAC CAGTAGCTAT       360

AAGATTTGGT TCACATAGAA ATTTTTTATA AGATAATGTA TCTAGGTTTG CTTATGATTA       420

TACATGTGAT ATTTAATACA TGGCACAGGT TCGTCGAGTT TCACAGCCAT AGGTACAATA       480

GAAGGCAAAT TCGATTGTGG TTATCTGGTA AAAGTTAAGT TGGGCTCAGA GATTCTTAAC       540

GGCGTTCTTT ATCATTCGGC CCAGCCCGGC CCATCATCAT CTCCAACCGC TGTTCTAAAC       600

AATGCCGTTG TACCTTATGT TGAAACTGGG AGGAGACGGC GTCGTTTAGG TAAAAGACGA       660

AGAAGCAGAC GCAGAGAAGA TCCGAATTAC CCGAAACCGA ACCGGAGCGG TTACAATTTC       720

TTCTTTGCTG AGAAACATTG CAAGCTCAAA TCACTTTATC CCAACAAGGA GAGAGAGTTT       780

ACGAAACTTA TCGGAGAATC GTGGAGCAAT CTCTCTACCG AAGAACGAAT GGTAACAAAT       840

TATCTTTTAA ACCGTTACCG ATTTAGTGAT GAAATTAGAT TTGTATTGCA GCGATTTCAT       900

TTTAGATTCT CAAAAATATT CTCAGATGTG TGGGATTTGA GTAGAGTTTA TGTTGCGTTG       960

GCATGATTTG AATAGTATGC AAGATTTTTG AGATTTTGCA TTCGTTCATG TGTGTATGTG      1020

TGATTGTAGC TTGATATGAT TTAACCTGTT AGTTAAATGT GCATAGACAA TAAGTAACAT      1080

ACGAAGCGAG TCACTAAGCA TAAGAGTCAA CTTGTTTTGC TGAAAAGATA TCACTTATGA      1140

TTTTCGAATC ATTTTAGCTT TTTTGTCACT TGAGCTTAAT GATTCTTCTG AAAATTCGATT     1200

CTTTGTTTGG TTTATGTCAC ATTCTTTAGA ATTGAGAATC TAAGAAATGC TTACAGGATA      1260

TGGTGAAACT ATTCTTTTAA GATAGCATGA TGCTTCTTTT ATGATTCTAC AGTGGCTAAG      1320

TCATTTTTTT TTTGTTCTAT TCTTTGTAGC ACCATGG                               1357
```

(2) INFORMATION FOR SEQ ID NO: 19:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 34 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: cDNA

    (iii) HYPOTHETICAL: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

```
GTCTTGTACA AATCTAATTT CATCACTAAA TCGG                                    34
```

(2) INFORMATION FOR SEQ ID NO: 20:

    (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 34 base pairs
       (B) TYPE: nucleic acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: cDNA

    (iii) HYPOTHETICAL: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

TTAGATTTGT ACAAGACCCT TCCTCTATAT AAGG   34

(2) INFORMATION FOR SEQ ID NO: 21:

    (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 19 base pairs
       (B) TYPE: nucleic acid
       (C) STRANDEDNESS: single
       (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: cDNA

    (iii) HYPOTHETICAL: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

TTCCCAGTCA CGACGTTGT   19

(2) INFORMATION FOR SEQ ID NO: 22:

    (i) SEQUENCE CHARACTERISTICS:
       (A) LENGTH: 1006 base pairs
       (B) TYPE: nucleic acid
       (C) STRANDEDNESS: double
       (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: DNA (genomic)

    (iii) HYPOTHETICAL: NO

    (iii) ANTI-SENSE: NO

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

GGATCCCCGG GTACCATCAT AATACTCATC CTCCTTCTCA AGGTTCGTAC GTATTATCAA   60

TATCTAGTAT ATACTTGTCT TTGTTCTATG CTTTATATCA TCATTTTATG ACAAAAAATG   120

ATTAAGGTCT TAGTTAATGA TTATGTATAT GTGAAACTTA TATTTAGGGG CACAGTTTAA   180

TTTCGTATGA TAATTGTCTA GTTAGCTTTA TGTACTTATC ATAAAAACCT TAGTGTTTAT   240

CGCAATACTT TTCAAATATA GTGTAGAATC ATAATGGTCC CACTGTCATT ATGTTTGATG   300

CAAATCTATT TGGATTTTGT TGGATAATAA ACCGATGACG TGGACCAGAC CAGTAGCTAT   360

```
    AAGATTTGGT TCACATAGAA ATTTTTTATA AGATAATGTA TCTAGGTTTG CTTATGATTA      420

    TACATGTGAT ATTTAATACA TGGCACAGGT TCGTCGAGTT TCACAGCCAT AGGTACAATA      480
5
    GAAGGCAAAT TCGATTGTGG TTATCTGGTA AAAGTTAAGT TGGGCTCAGA GATTCTTAAC      540

    GGCGTTCTTT ATCATTCGGC CCAGCCCGGC CCATCATCAT CTCCAACCGC TGTTCTAAAC      600
10
    AATGCCGTTG TACCTTATGT TGAAACTGGG AGGAGACGGC GTCGTTTAGG TAAAAGACGA      660

    AGAAGCAGAC GCAGAGAAGA TCCGAATTAC CCGAAACCGA ACCGGAGCGG TTACAATTTC      720

    TTCTTTGCTG AGAAACATTG CAAGCTCAAA TCACTTTATC CCAACAAGGA GAGAGAGTTT      780
15
    ACGAAACTTA TCGGAGAATC GTGGAGCAAT CTCTCTACCG AAGAACGAAT GGTAACAAAT      840

    TATCTTTTAA ACCGTTACCG ATTTAGTGAT GAAATTAGAT TTGTACAAGA CCCTTCCTCT      900
20
    ATATAAGGAA GTTCATTTCA TTTGGAGAGG ACACGTATTT TTACAACAAT TACCAACAAC      960

    AACAAACAAC AAACAACATT ACAATTACTA TTTACAATTA CCATGG                    1006
```